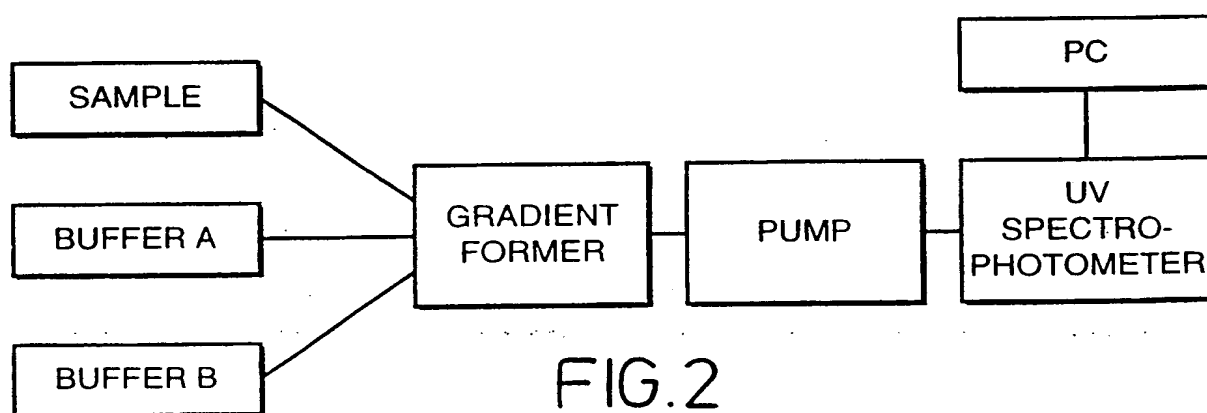
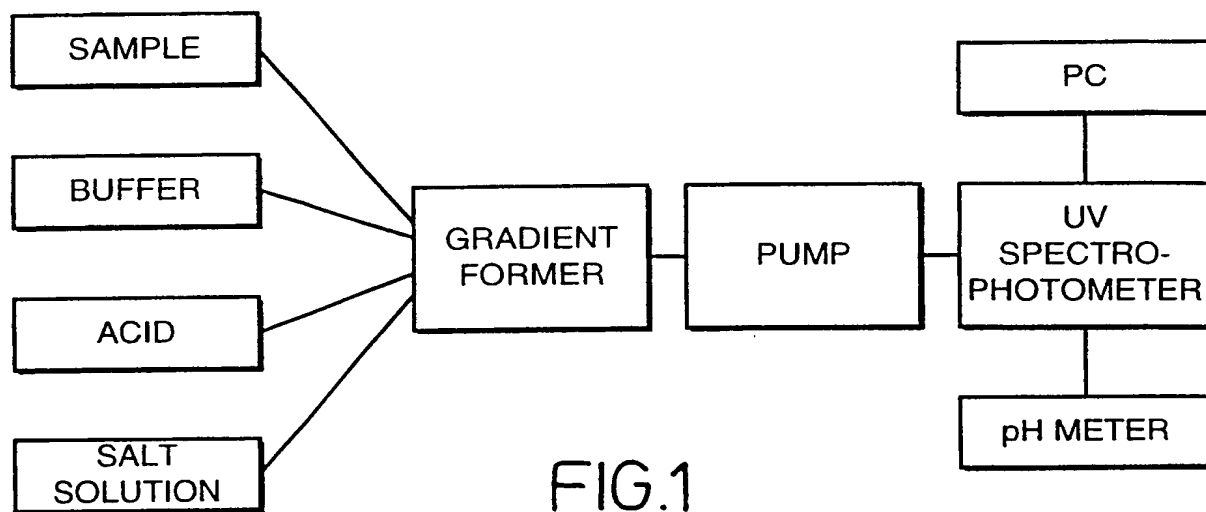


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PLUMBING DIAGRAM

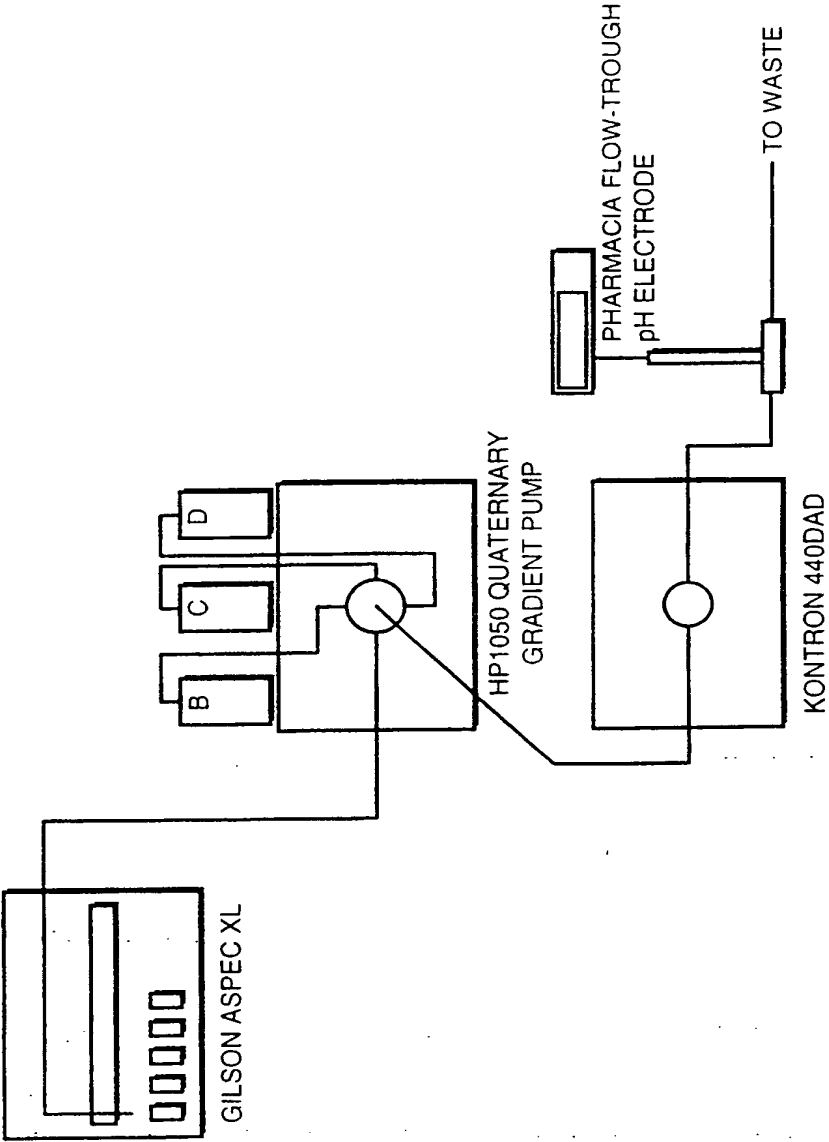


FIG.3

ELECTRICAL CONNECTIONS 1:OUTLINE

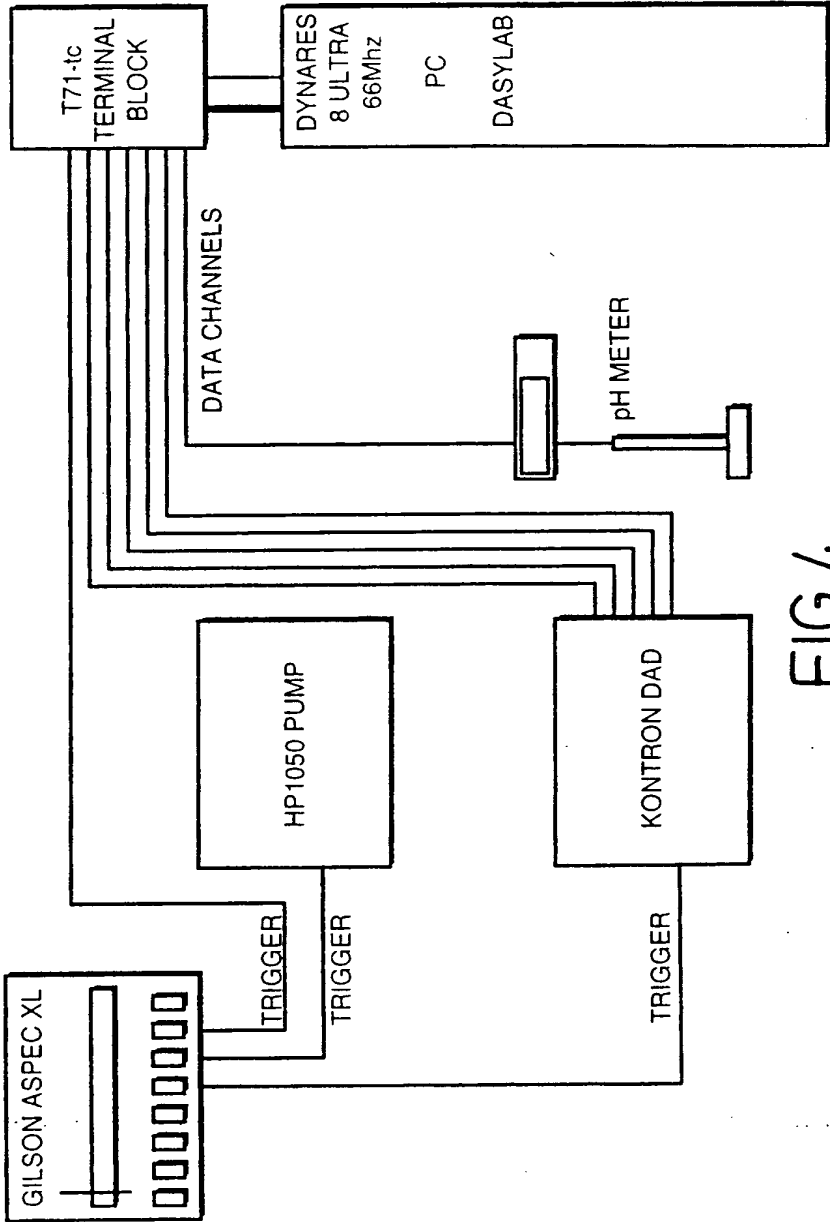


FIG.4

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## ELECTRICAL CONNECTIONS 2: TRIGGER EVENTS

GILSON XL RELAY OUTPUTS

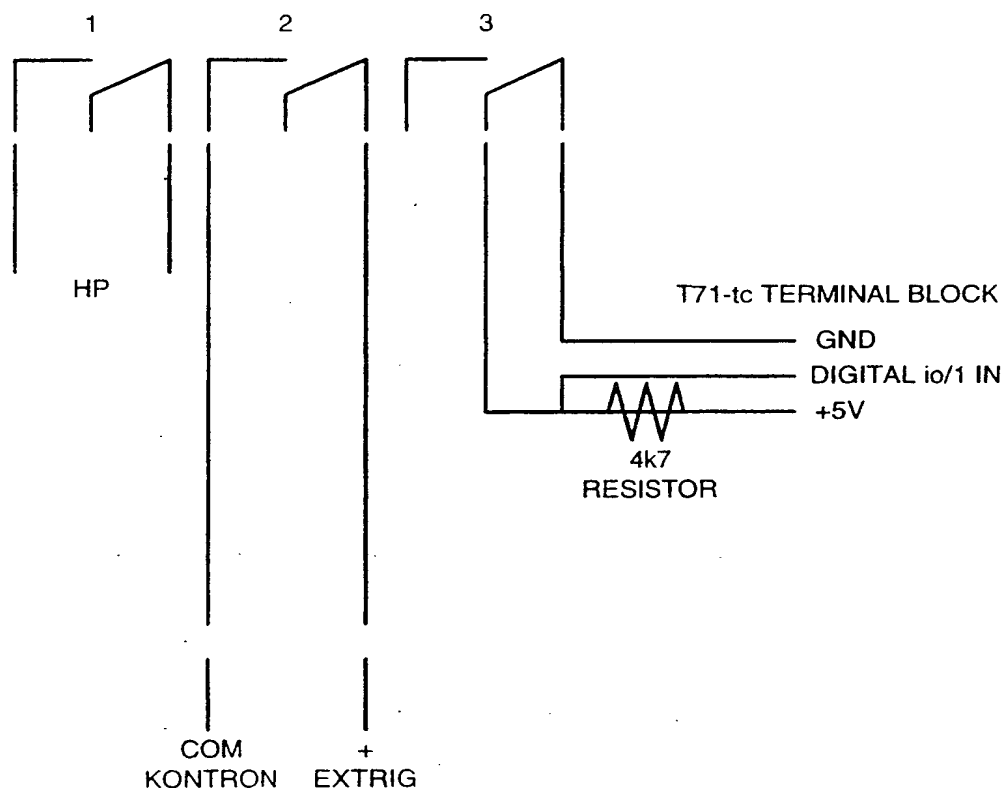


FIG.5

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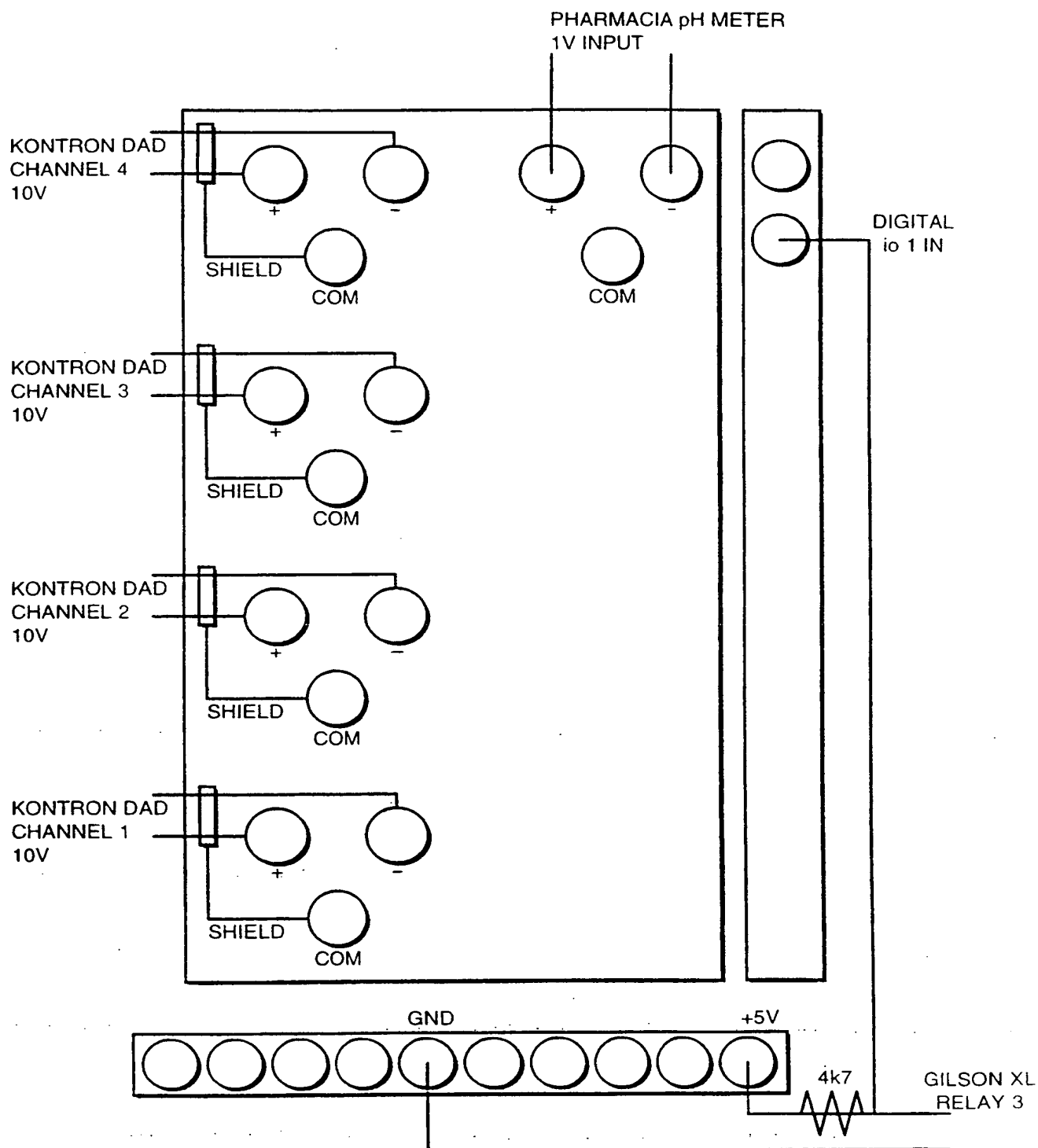


FIG.6

SUBSTITUTE SHEET (RULE 26)

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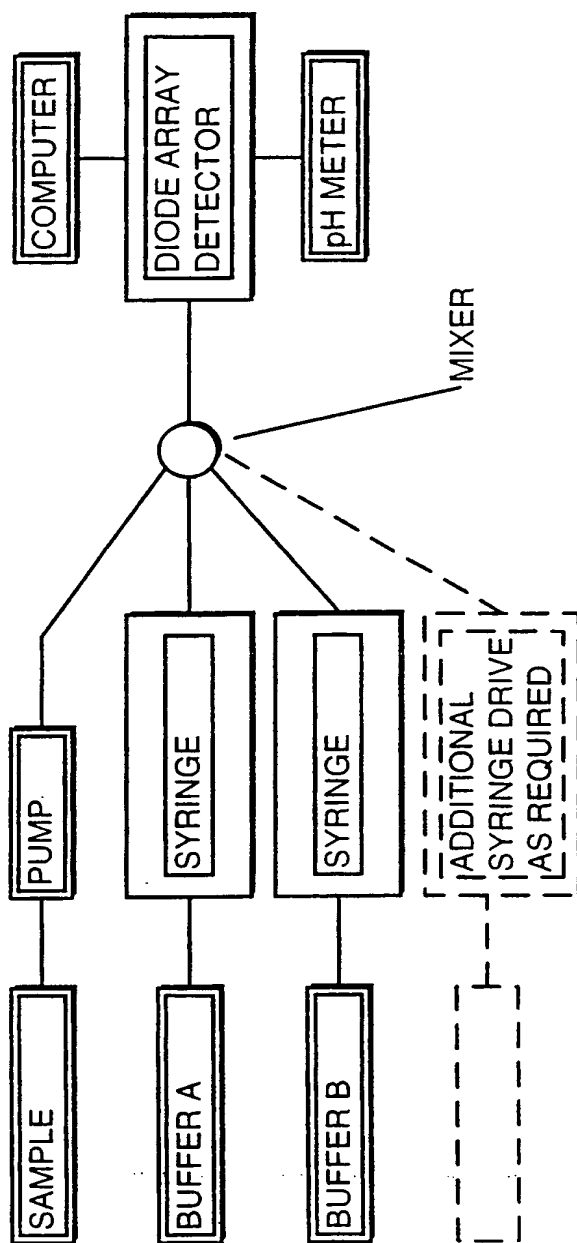


FIG. 7

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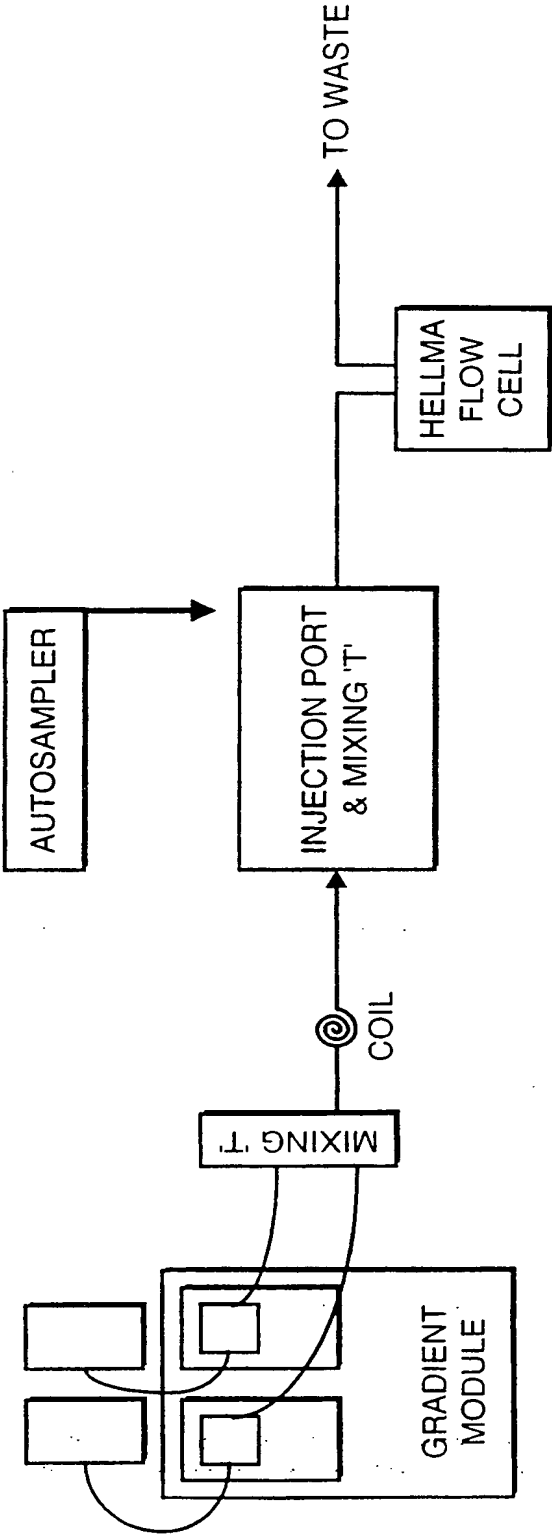


FIG. 8

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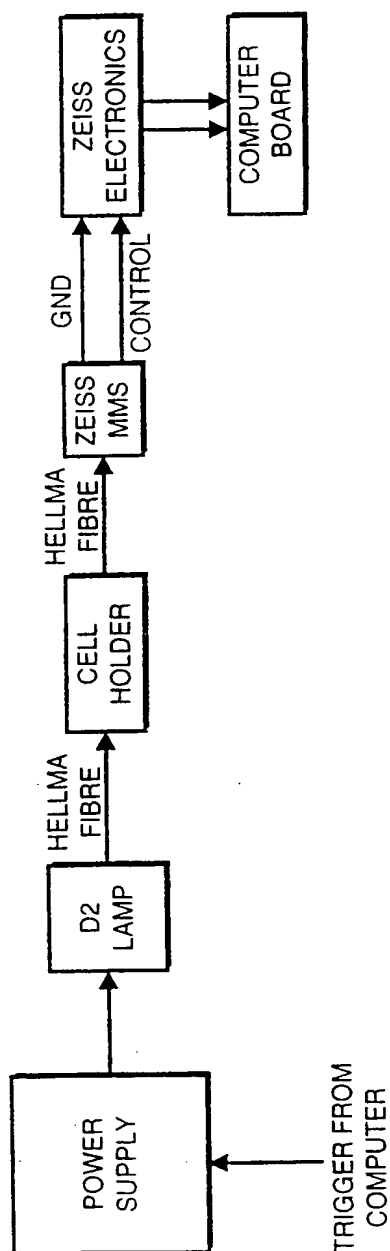


FIG.9



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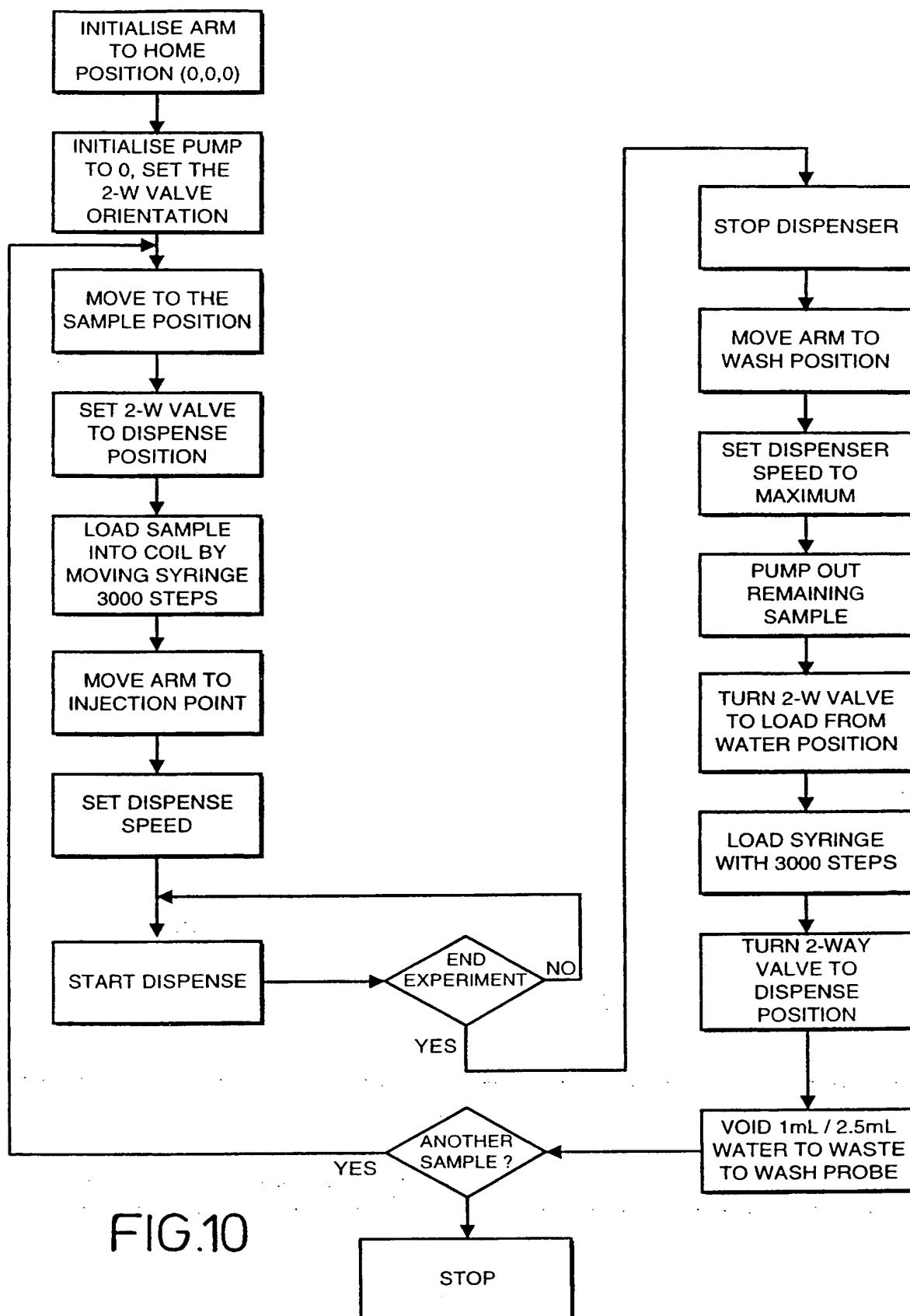


FIG.10

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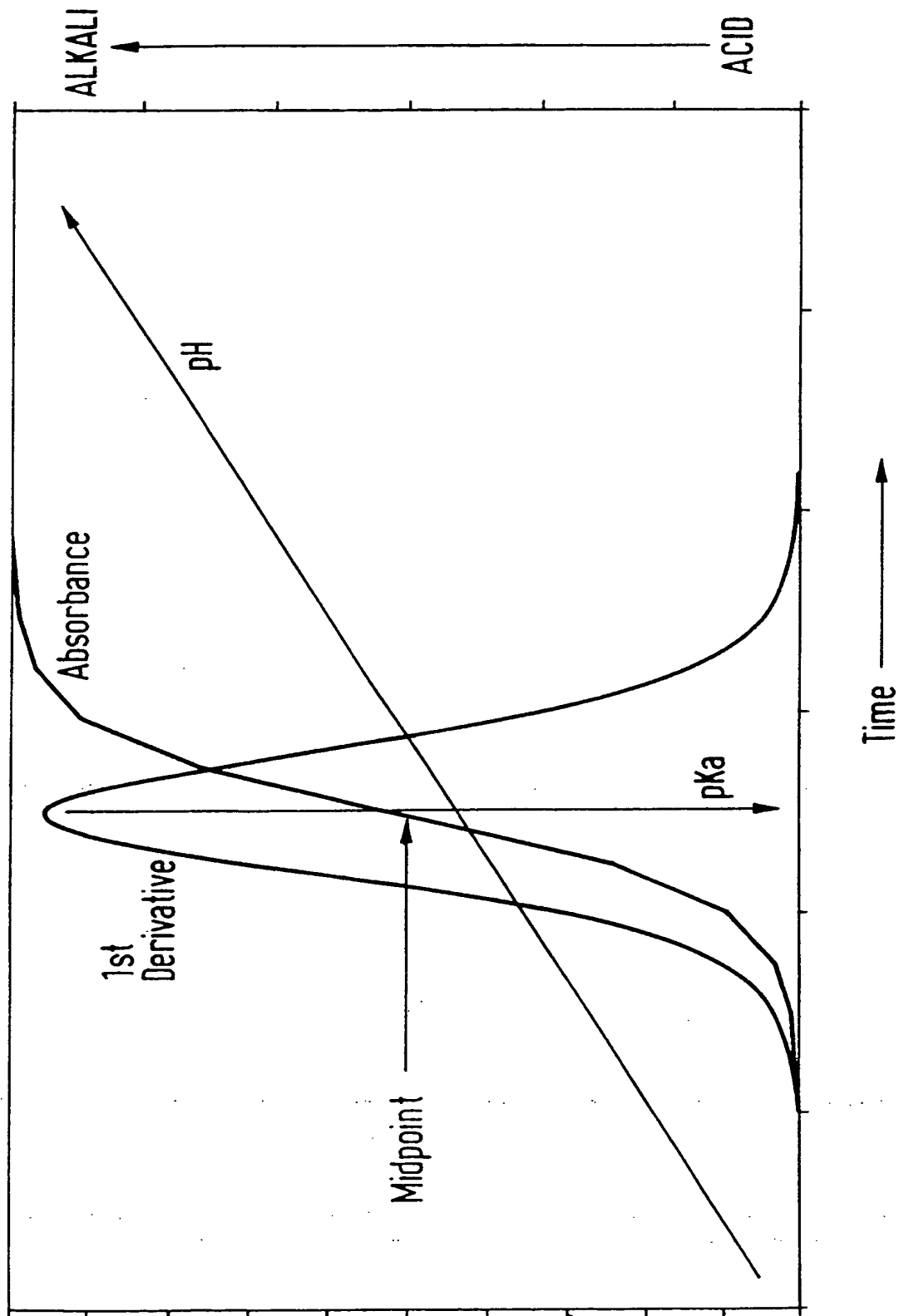


FIG.11

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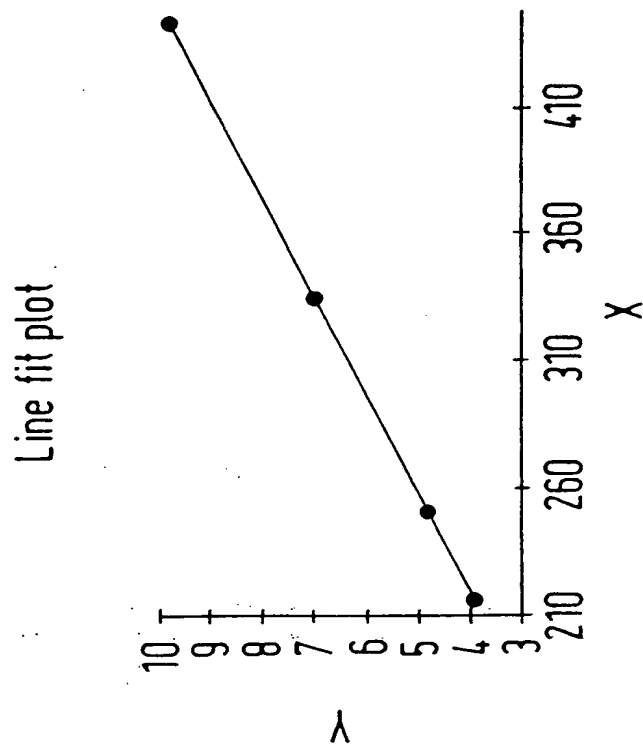
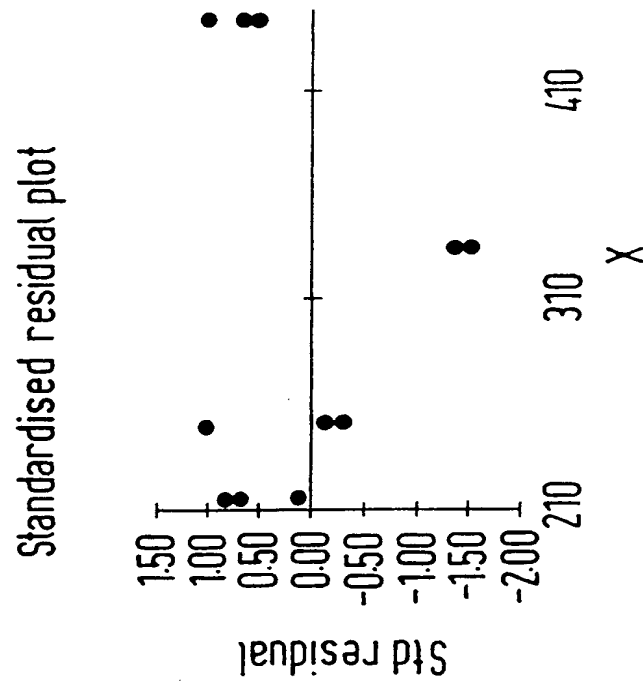


FIG.12

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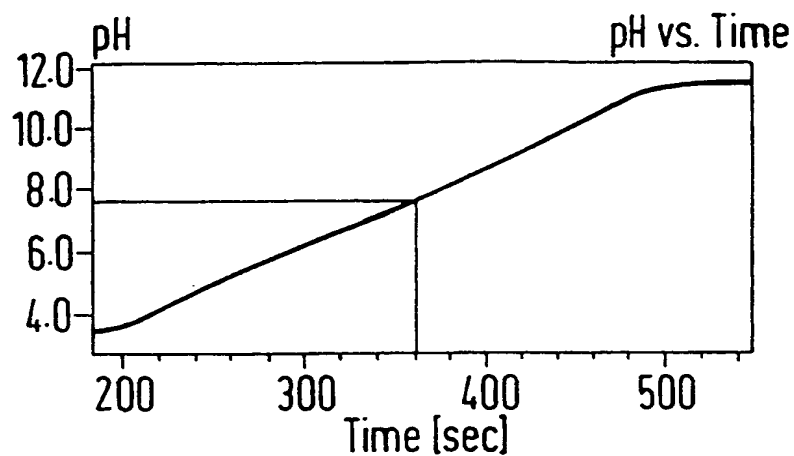


FIG.13

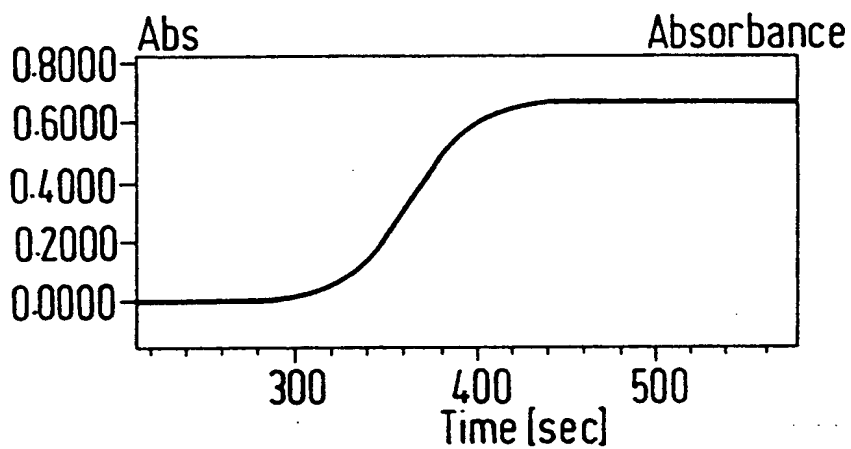


FIG.14

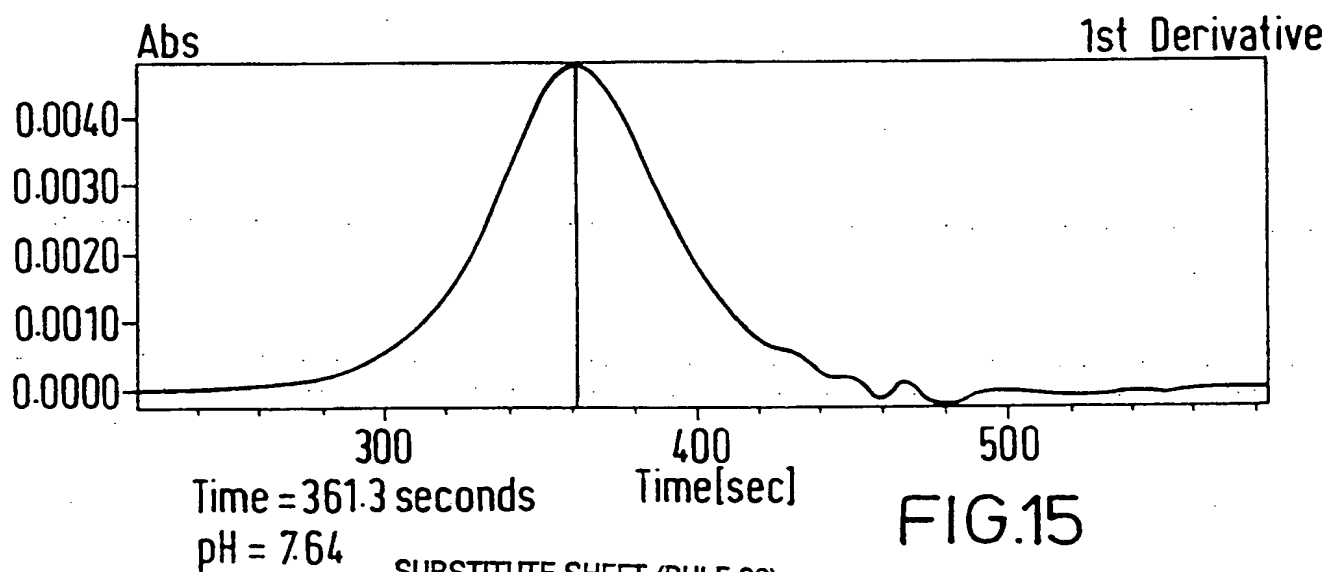


FIG.15

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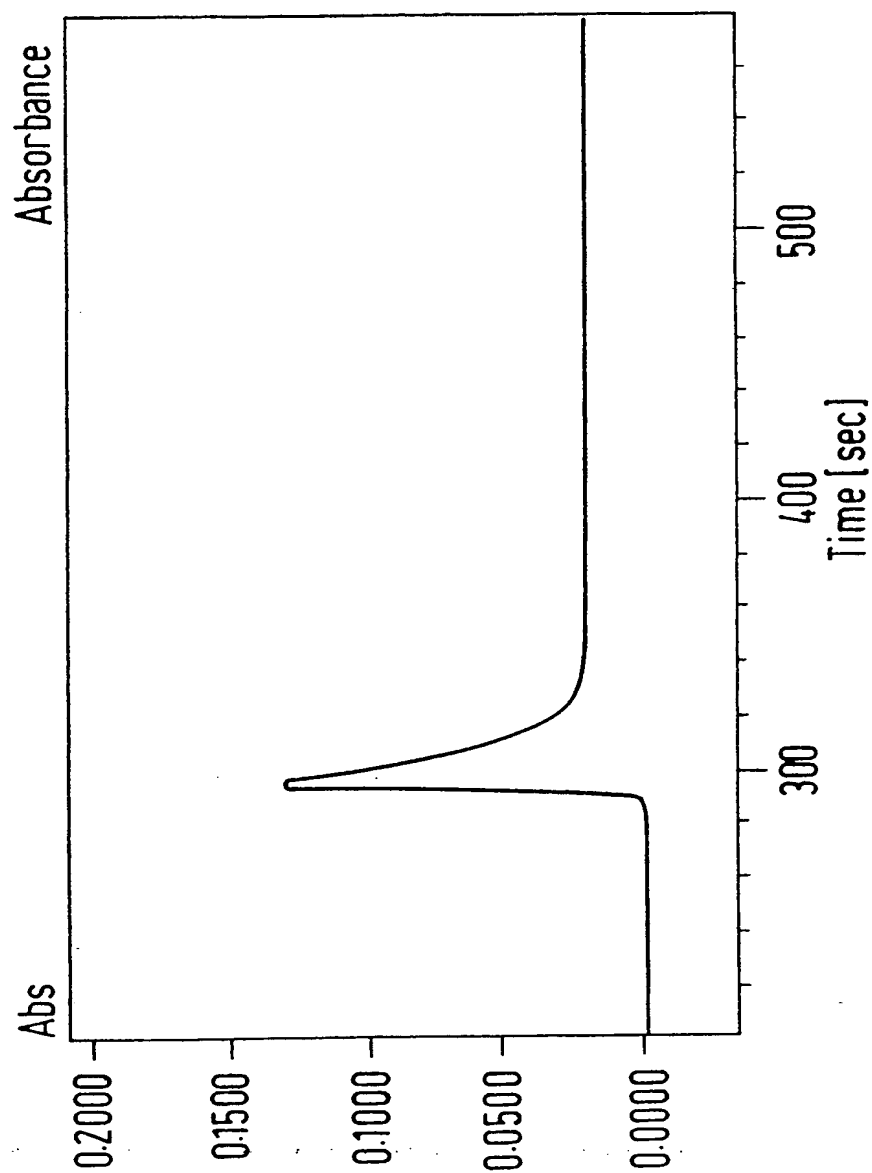


FIG:16 Absorbance curve for an endpoint  
titration (KHP at 240nm)

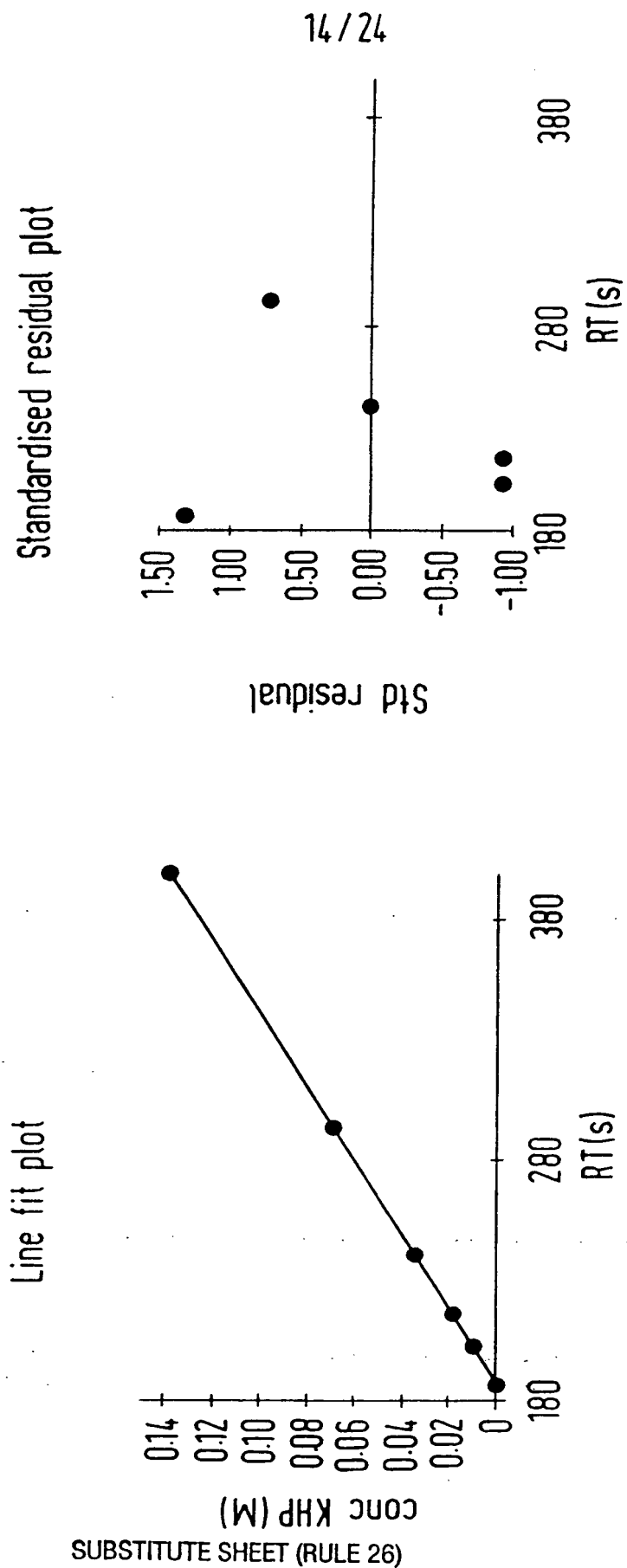


FIG.17

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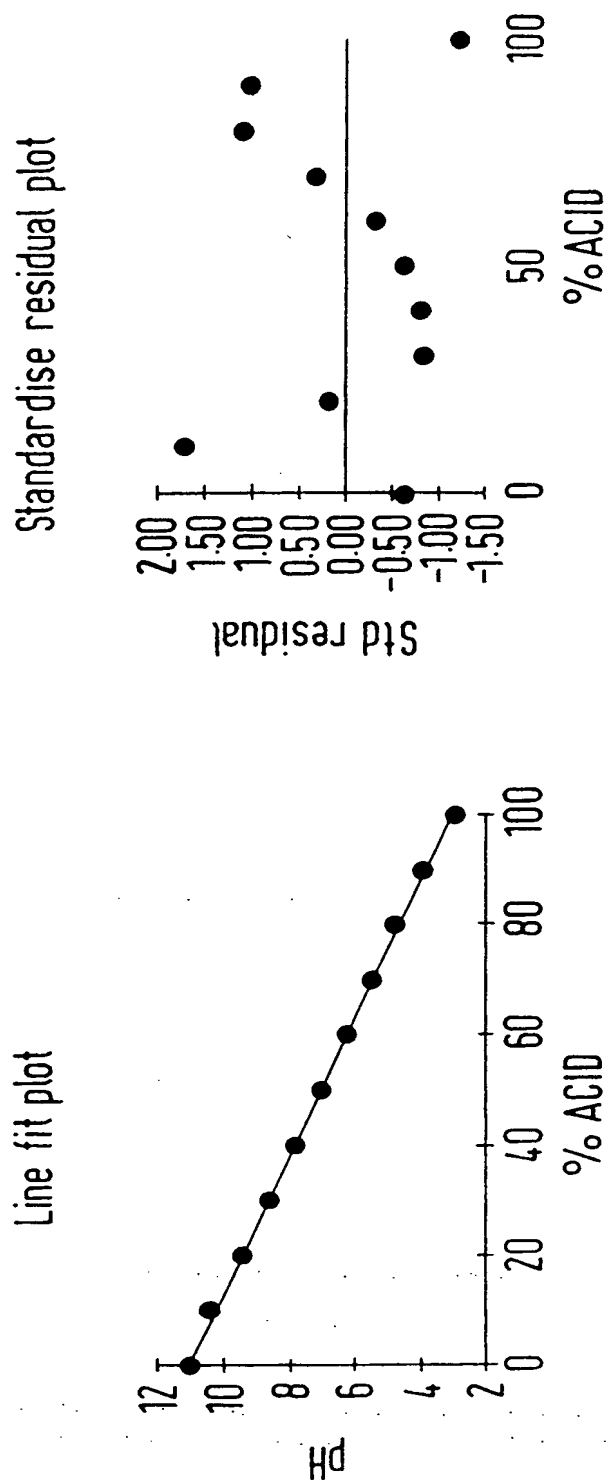


FIG.18

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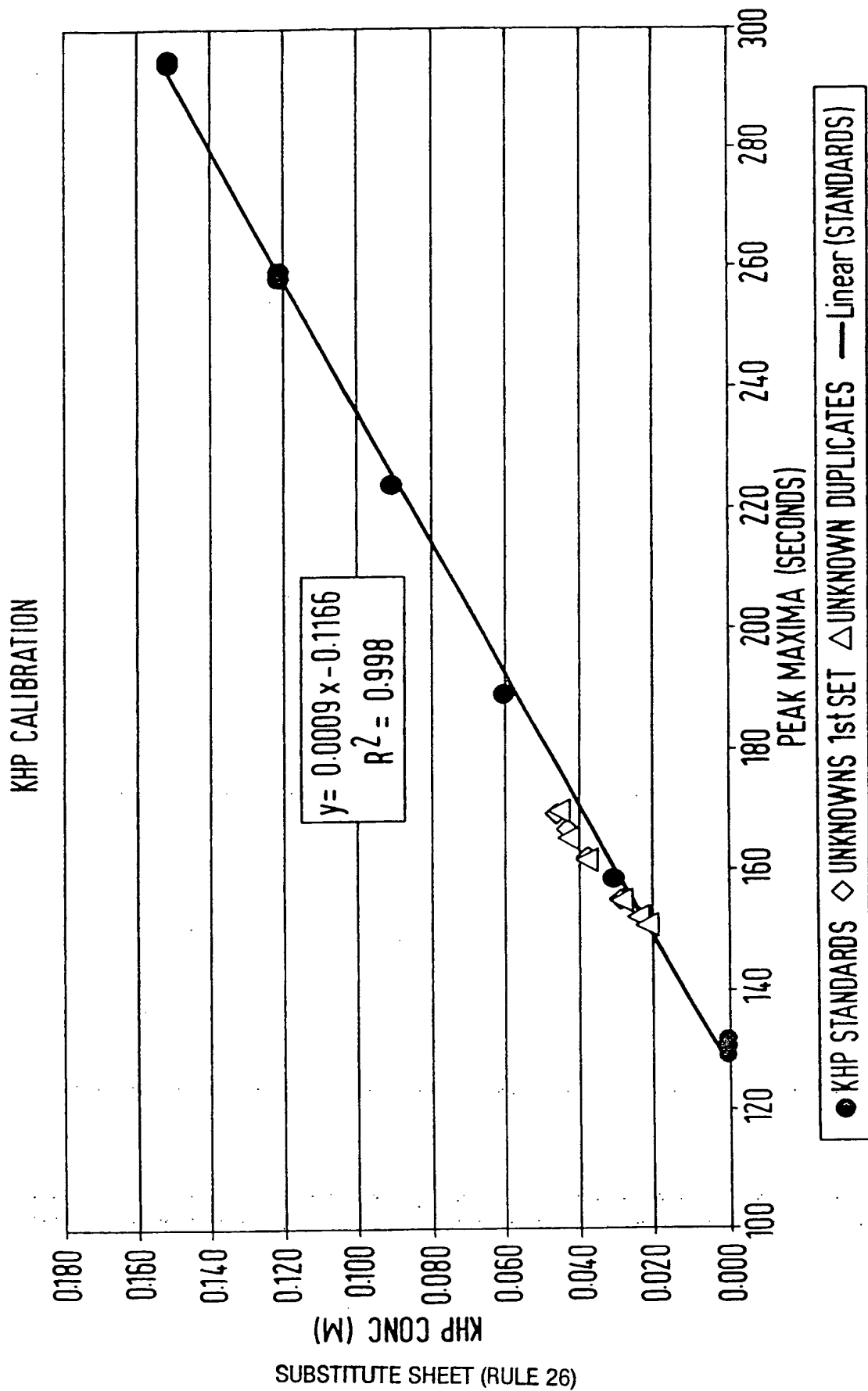


FIG.19



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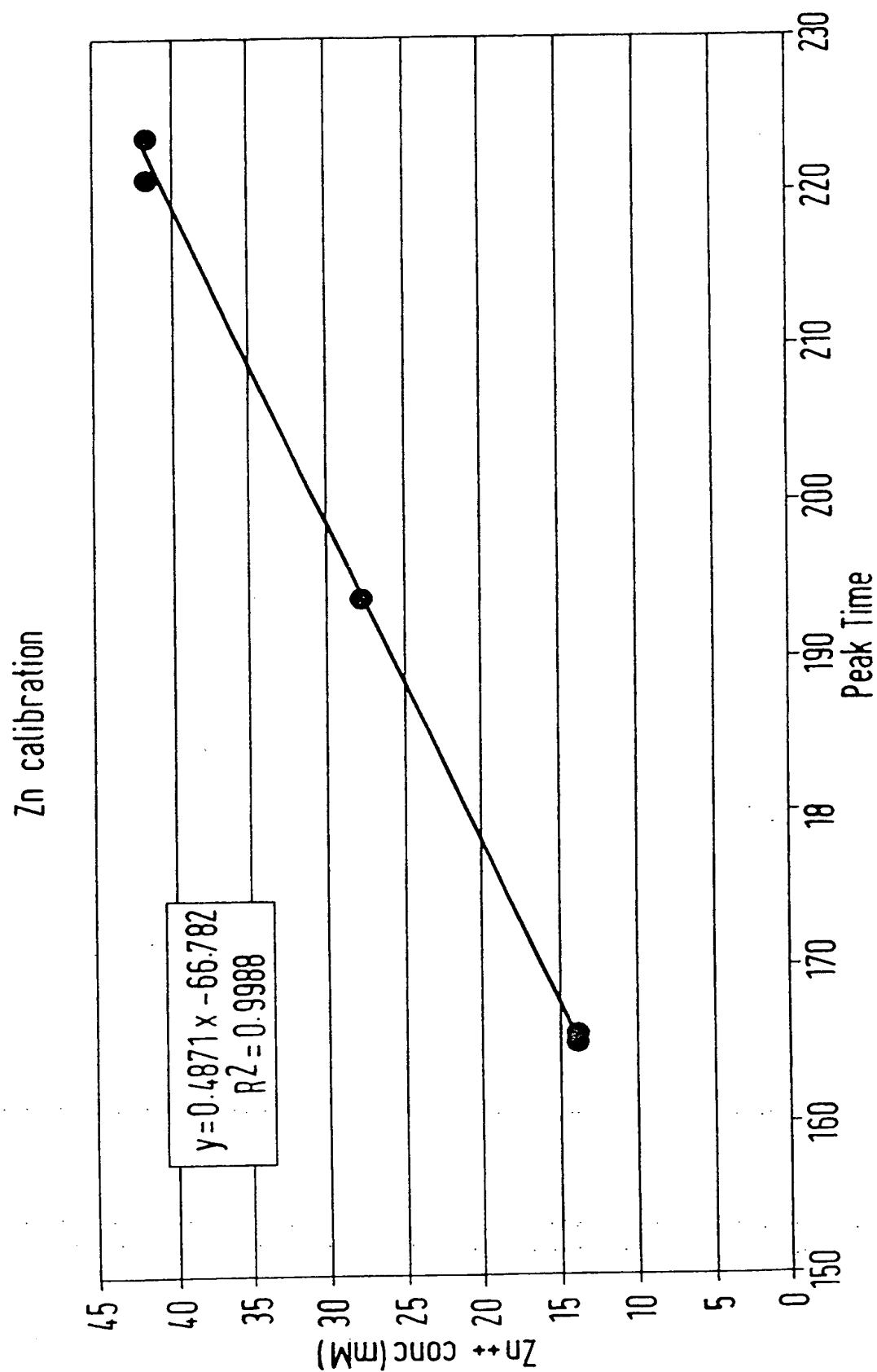


FIG. 20

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measured, fitted and 1st derivative of absorbance data

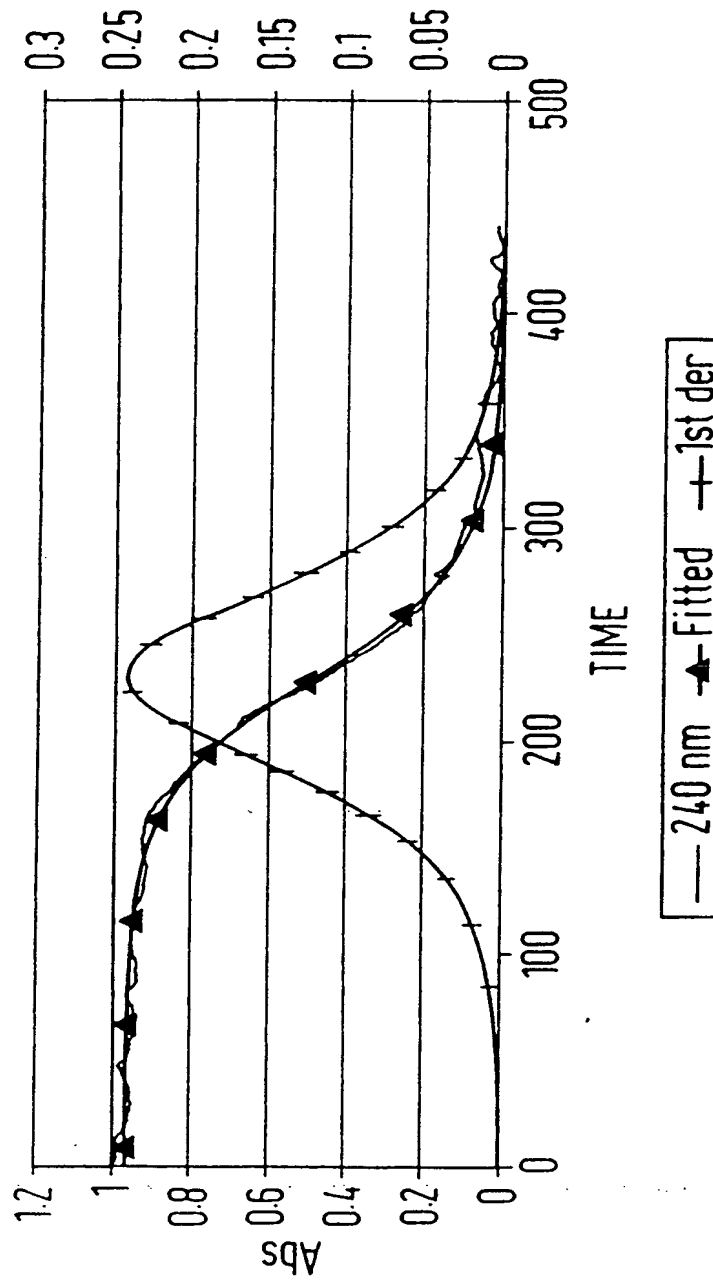


FIG.21

measured, fitted and 1st derivative of absorbance data

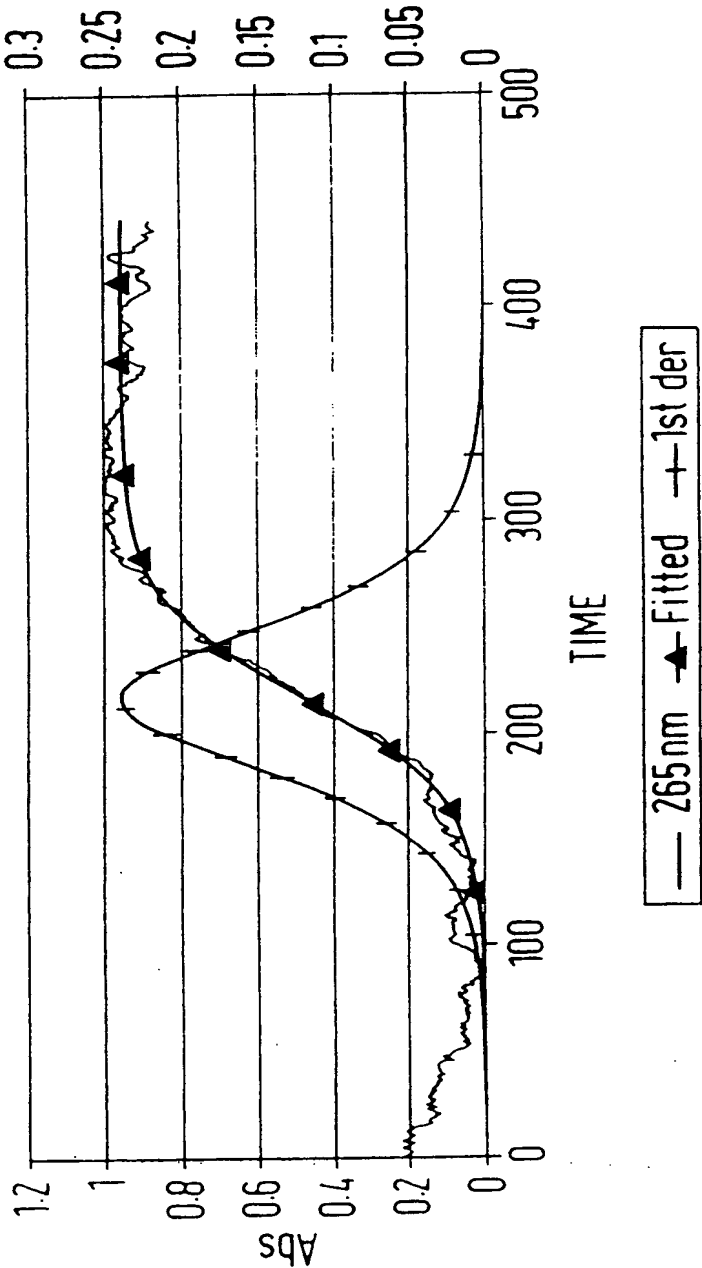


FIG.22

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measured, fitted and 1st derivative of absorbance data

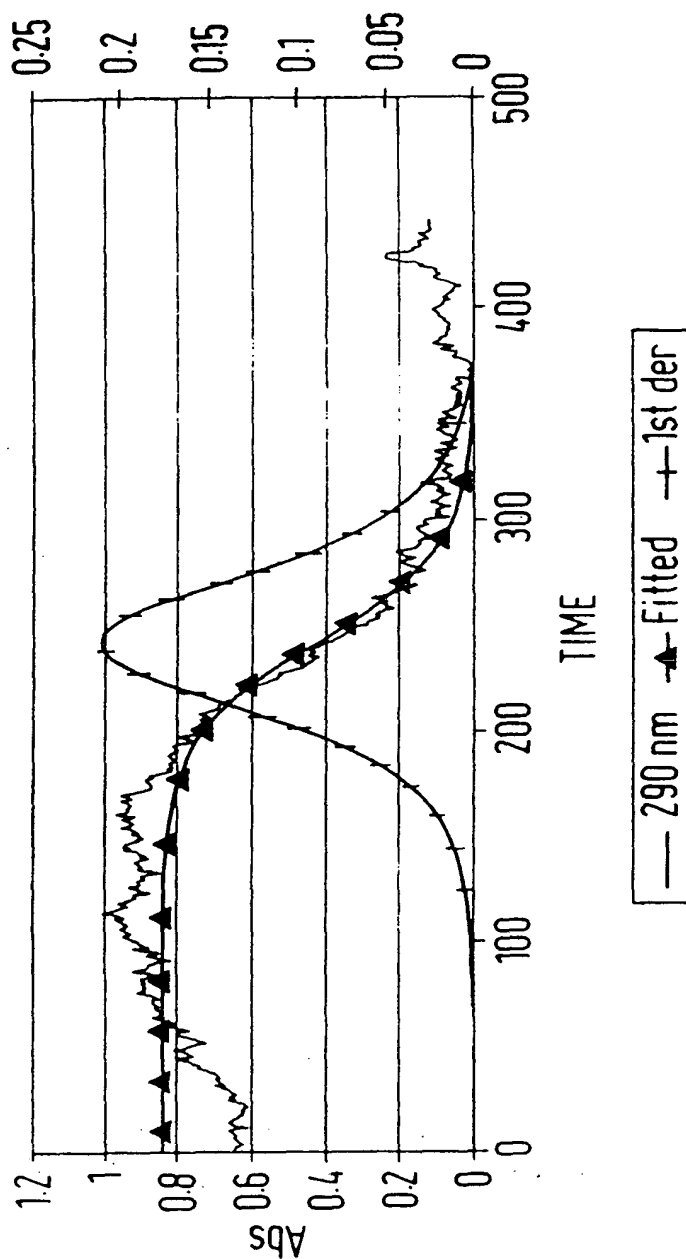


FIG. 23

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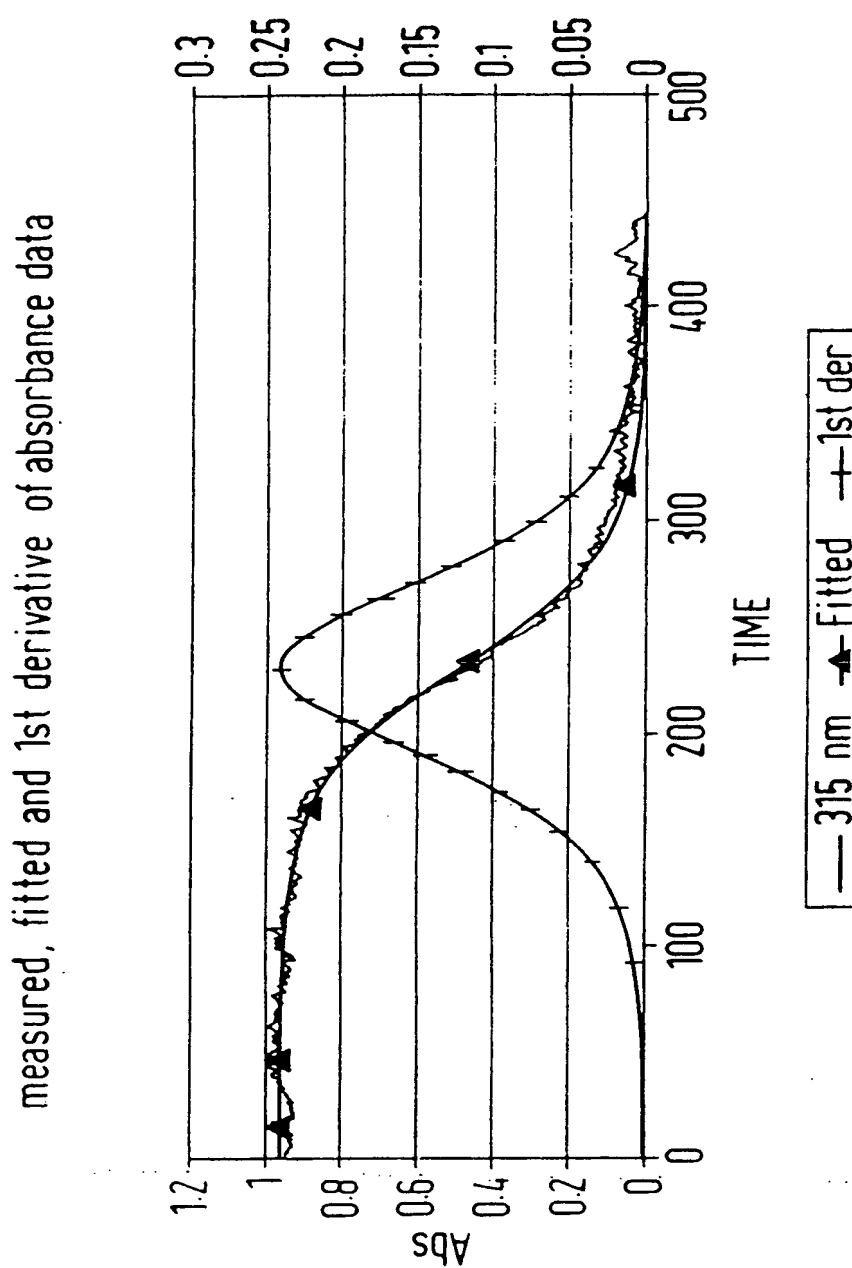


FIG.24

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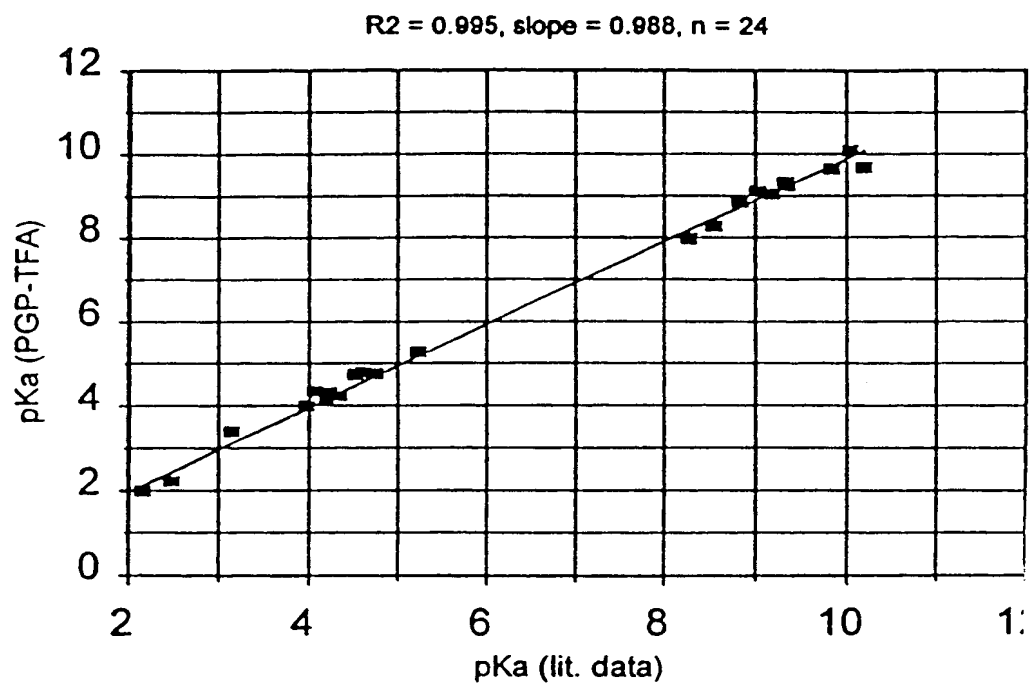


FIG. 25

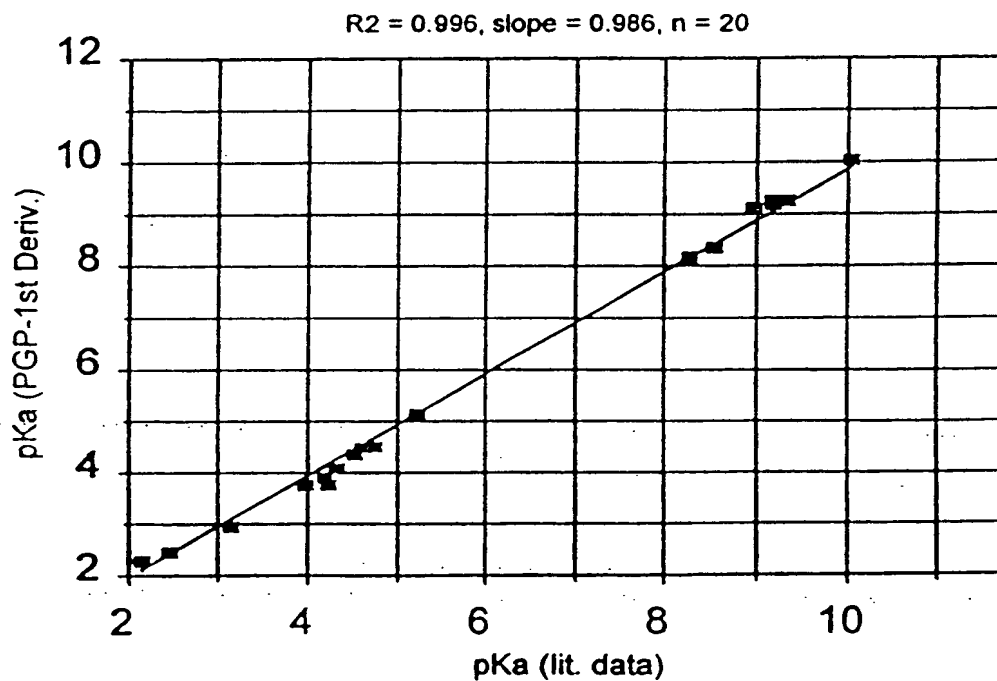
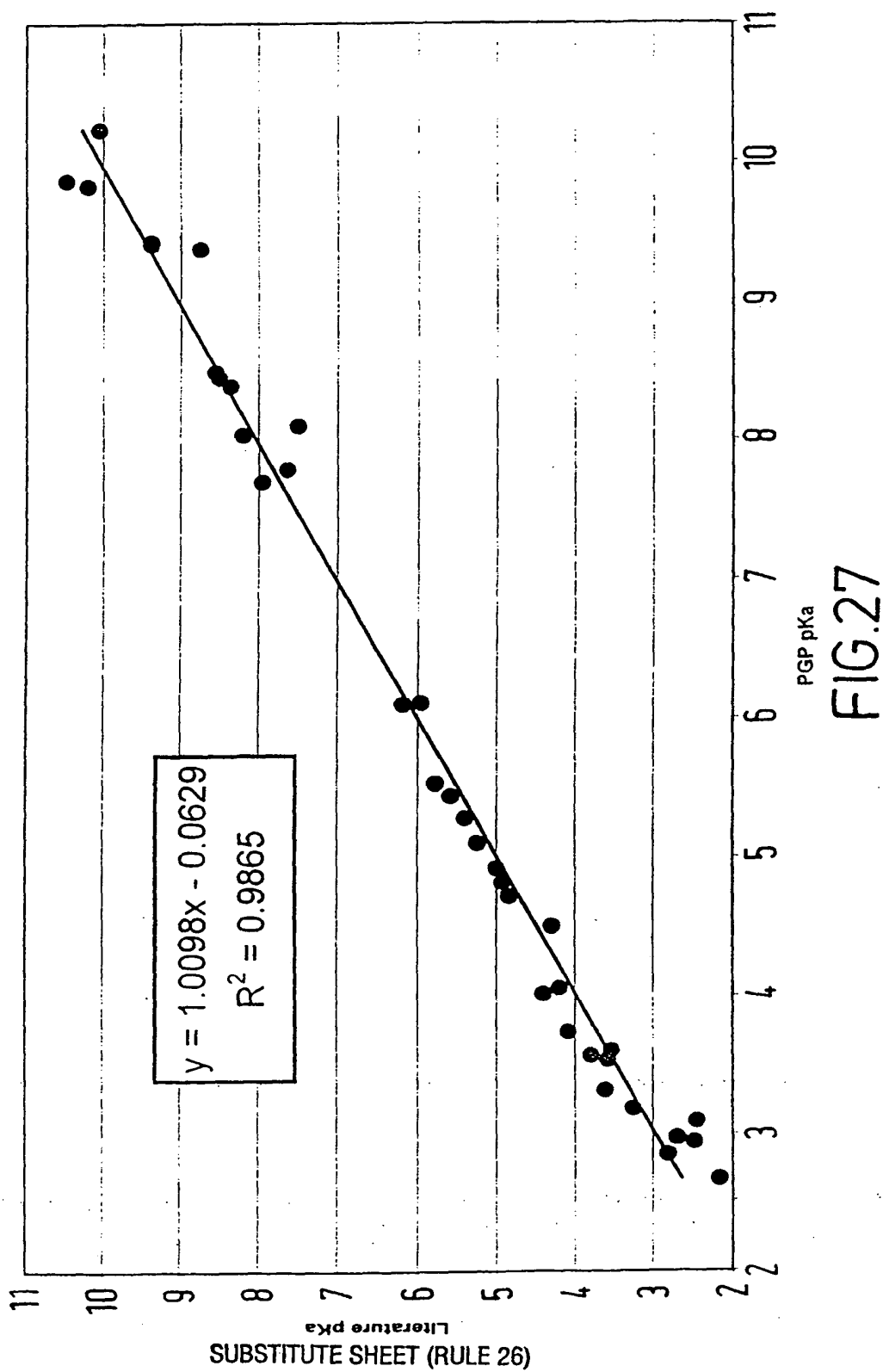


FIG. 26

SUBSTITUTE SHEET (RULE 26)

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Expected absorbance profiles  
with the absence and presence of partitioning  
medium: Base1:  $A_i=1$ ,  $A_u=0$ ,  $\log P=3.5$   
 $\Delta=3.5$ ,  $pK_a=10$   $ch=1$

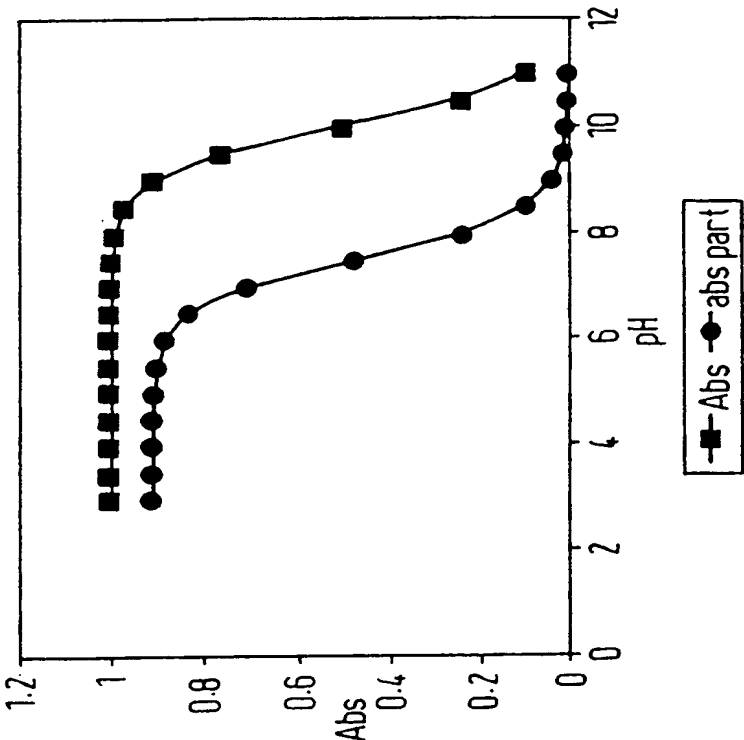


FIG.29

Expected absorbance profiles  
with the absence and presence of partitioning  
medium: Acid1:  $A_i=1$ ,  $A_u=0.2$ ,  $\log P=3.5$   
 $\Delta=3.5$ ,  $pK_a=4$   $ch=-1$

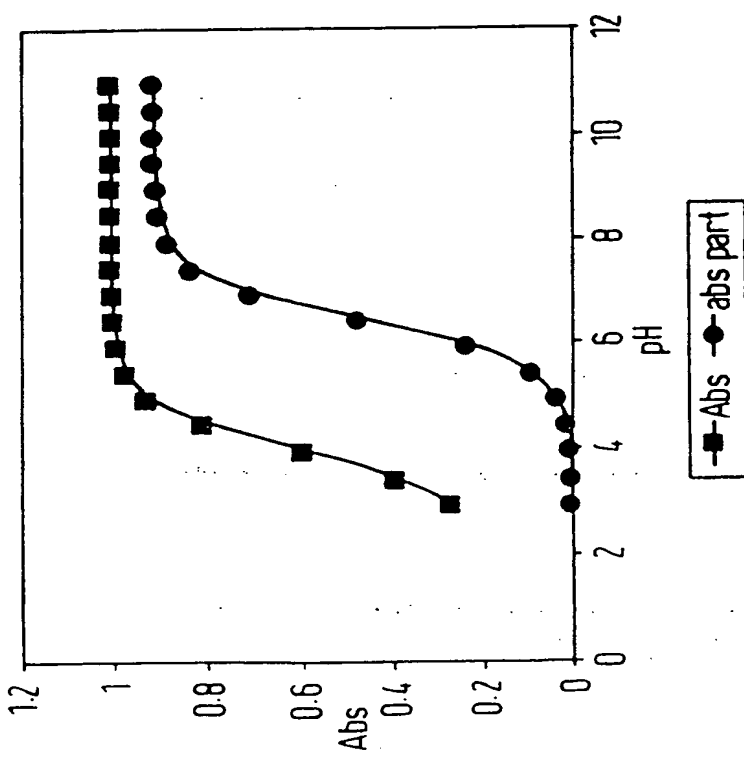


FIG.28